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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/780,638	02/19/2004	Ming Bo Wang	021565-156	2125
21839 7590 10/22/2007 BUCHANAN, INGERSOLL & ROONEY PC POST OFFICE BOX 1404			EXAMINER	
			KALLIS, RUSSELL	
ALEXANDRI.	A, VA 22313-1404		ART UNIT	PAPER NUMBER
			1638	
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			NOTIFICATION DATE	DELIVERY MODE
			10/22/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com debra.hawkins@bipc.com

	Application No.	Applicant(s)	
	10/780,638	WANG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Russell Kallis	1638	•
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO EXPIRE 3 N	MONTH(S) OR THIRTY (30) DA	YS
WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statuly any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MO te, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communic BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 25.	July 2007.		
2a)☑ This action is FINAL . 2b)☐ Thi	s action is non-final.		
3) Since this application is in condition for allowa	•	·	is is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.). 11, 453 O.G. 213.	
Disposition of Claims			;
4) Claim(s) <u>1-12</u> is/are pending in the application	n.		
4a) Of the above claim(s) is/are withdra	awn from consideration.		
5) Claim(s) is/are allowed.		•	
6)⊠ Claim(s) <u>1-12</u> is/are rejected.			
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	or election requirement	•	
are subject to restriction and	or election requirement.	,	
Application Papers			
9) The specification is objected to by the Examin			
10) The drawing(s) filed on is/are: a) acc			
Applicant may not request that any objection to the	3(,)		244.0
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E			• •
	examiner. Note the attache		•
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).	·
a) All b) Some * c) None of: 1. Certified copies of the priority documen	ts have been received		~
Certified copies of the priority document Certified copies of the priority document		Application No	
3. Copies of the certified copies of the prior			
application from the International Burea	•		
* See the attached detailed Office action for a list	t of the certified copies not	received.	
		·	
Attachment(s)			•
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		s)/Mail Datenformal Patent Application	
Paper No(s)/Mail Date	6) Other:		

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DETAILED ACTION

Rejection of Claim 1 under 35 U.S.C. 112, second paragraph, is withdrawn in view of Applicant's amendments.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-12 are pending and examined.

Claim Rejections - 35 USC § 103

Claims 1-12 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Wesley S. *et al.* The Plant Journal, 2001; Vol. 27, no. 6; pp. 581-590 in view of Yukawa Y. *et al.* Plant Molecular Biology, 2002; Vol. 50, pp. 713-723 and Applicant's specification. This rejection is maintained for the reasons of record set forth in the Official action mailed 1/25/2007.

Applicant's arguments filed 7/25/2007 have been considered but are not deemed persuasive.

Applicant asserts that Yukawa is limited to only teaches *in vitro* expression using Pol III promoters (response page 8 paragraph 2). Yukawa teaches the successful *in vitro* transcription using nuclear plant extracts and teaches the usefulness of the Pol III promoters for *in vivo* expression in transformed plants.

Applicant asserts that Yukawa does not teach or suggest the use of the instantly claimed silencing constructs (response page 8, paragraph 3). Yukawa does teach the usefulness of the 7SL Pol III promoters in antisense transformation of plants. One of ordinary skill in the art would realize that a promoter that is useful for antisense silencing because of the expression properties of the promoter would also prove useful in the double stranded "antisense silencing" constructs claimed by Applicant.

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Applicant asserts that Yukawa does not teach success for driving gene expression in plants (response page 8, paragraph 4). Clearly, success was demonstrated *in vitro* using plant nuclear extracts is evidence that the promoters would function *in vivo* in a transgenic plant directed to antisense technology.

Applicant asserts that Yukawa does not teach or suggest that using a pol III promoter would be more effective in gene silencing using a hpiRNA (i.e. double stranded RNA) construct than a pol II promoter (response page 9, paragraph 1). The claims are not drawn to Pol II promoters or to any comparative increase in expression using Pol III promoters relative to Pol II promoters. However, Yukawa does teach that Pol III promoters are advantageous, because they were shown to high levels of stable transcripts (see abstract); and thus would prove very advantageous in driving expression *in vivo*.

No claim is allowed.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Kallis whose telephone number is (571) 272-0798. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached on (571) 272-0975. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Russell Kallis Ph.D. January 20, 2007

